

Title (en)  
MULTIPLE EDGE DRILL

Title (de)  
MEHRSCHNEIDIGES BOHRWERKZEUG

Title (fr)  
OUTIL DE PERÇAGE À ARÊTES COUPANTES MULTIPLES

Publication  
**EP 2323792 B1 20160907 (DE)**

Application  
**EP 09768833 A 20090626**

Priority  
• DE 2009000892 W 20090626  
• DE 102008030796 A 20080628  
• DE 102009024597 A 20090610

Abstract (en)  
[origin: CA2731128A1] The invention relates to a multiple edge drill such as is especially used for machining difficult-to-machine, e.g. high-toughness materials, such as e.g. cast steel, steel for hardening and tempering or other difficult-to-machine steel materials including metallic cast materials, such as e.g. gray cast iron, and especially GGV or ADI cast iron. The facet is designed in such a manner that the main cutting edge has at least two main cutting edge sections (22, 24) that define point angles of different size, the radially outer point angle (WSPA) being smaller than the radially inner one (WSPI), thereby obtaining a good cutting behavior and long service life of the tool.

IPC 8 full level  
**B23B 51/02** (2006.01)

CPC (source: EP KR US)  
**B23B 51/00** (2013.01 - KR); **B23B 51/02** (2013.01 - EP KR US); **B23B 2222/14** (2013.01 - EP US); **B23B 2222/84** (2013.01 - EP US); **B23B 2251/04** (2013.01 - EP US); **B23B 2251/085** (2013.01 - EP US); **B23B 2251/14** (2013.01 - EP US); **B23B 2251/18** (2013.01 - US); **Y10T 408/03** (2015.01 - EP US); **Y10T 408/455** (2015.01 - EP US); **Y10T 408/905** (2015.01 - EP US); **Y10T 408/909** (2015.01 - EP US); **Y10T 408/9097** (2015.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102009030689 A1 20091231**; **DE 102009030689 B4 20220825**; CA 2731128 A1 20091230; CA 2731128 C 20161108; EP 2323792 A2 20110525; EP 2323792 B1 20160907; JP 2011526213 A 20111006; JP 5599390 B2 20141001; KR 101526642 B1 20150605; KR 20110055531 A 20110525; US 2011200403 A1 20110818; US 9004825 B2 20150414; WO 2009155909 A2 20091230; WO 2009155909 A3 20100415

DOCDB simple family (application)  
**DE 102009030689 A 20090626**; CA 2731128 A 20090626; DE 2009000892 W 20090626; EP 09768833 A 20090626; JP 2011515097 A 20090626; KR 20117002298 A 20090626; US 97959410 A 20101228